

PATENT APPLICATION PECETVED
33,071

MAR 25 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF HORST BERNETH ET AL SERIAL NUMBER: 10/089,358

FILED: MAY 13, 2002

TITLE: METHOD FOR DIGITALLY AND

OPTICALLY STORING DATA

**GROUP NO.: 1711** 

GROUP 17003

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)

**Assistant Commissioner for Patents** Washington, D.C. 20231

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements, copies of documents and any corresponding English language equivalents listed on the attached Form PTO are enclosed.

hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an enveloped addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231
Signature
March 7, 2003
Date

Concise statements of the presently understood relevance of each of the documents are found in the specification filed.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

Ву

Aron Preis

Attorney for Applicants

Reg. No. 29,426

Bayer Polymers LLC 100 Bayer Road Pittsburgh, Pennsylvania 15205-9741 (412) 777-8343 FACSIMILE PHONE NUMBER: (412) 777-8363 Io/PREIS/ap067

	U.S. PATENT DOCUMENTS										
					U.S. F	AIE	NI DUCUMENTS	<del></del>			
١.٠	EXAMINER INITIAL		DOCUMENT NUME	BER	DAT	TE	NAME	CLASS	SUBCLASS	FILING IF APF PRIA	PRO-
18	E YOU	AA	4,318,112		03/02/	82	(Bel. to corresp. to EP Kivits et al	25,253) 346	135.1		
<b>/</b> O. ,	1200	AB	**5,079,758		01/07/9	92	Clark	369	284 MAD	CEL	
/ 4	BR 3	AC	5,098,978		03/24/9	92	(Bel. to corresp. to DE Riepl et al	38,08,430) 528	15	1	8
1	ENT & THAT	AD							Cy	27/17	
		AE					PECE MAR 25 2 TC 120		(B)	00	
		AF					MAP	VED	MADE	Par.	
		AG			,		70 < 5	Pons C	MAR I A	EIVE	'n
		АН					1°C 1>00		Up	Y03.	
		Al					00		17	20	
		AJ									
		AK									-
				FO	REIGI	N PAT	ENT DOCUMENTS				
		DO	CUMENT NUMBER	DA	TE:		COUNTRY	CLASS	SUBCLASS	TRANSL	
				<del> </del>		<u> </u>	74.774			Yes	No*
	AL	**0 82	3 442	02/11	/98	Europ	De				
	· AM	**97/4	4365	11/27	/97	World					
	AN	**0 66	9 548	08/30	/95	Europ	oe				
	AO	**93/0	3073	02/18	/93 .	World	1				

	OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)
	**Database WPI Section Ch, Week 199327 Derwent Publications Ltd., London, GB; Class A89,
AR	AN 1993-216316 XP002154185 & JP 05 139042 A (Nippon Paint Co Ltd.), 8. Juni 1993
	(1993-06-08) Zusammenfassung.
	**Patent Abstracts of Japan vol. 007, no. 278 (P-242), 10. Dezember 1983 (1983-12-10) &
AS	JP 58 155543 A (Tokyo Shibaura Denki KK), 16. September 1983 (1983-09-16) Zusammenfassung.
	**Patent Abstracts of Japan vol. 012, no. 406 (P-777), 27. Oktober 1988 (1988-10-27) &
AT	JP 63 142546 A (Hitachi Ltd), 14. Juni 1988 (1988-06-14) Zusammenfassung.
FXAMINER	DATE CONSIDERED

Germany

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

- Neither English Language Equivalent nor an English Language Translation is available.
- \*\* Copies of documents previously submitted by WIPO.

AΡ

\*\*43 39 862

10/06/94

		011CCL <u>2</u> 01 <u>3</u>
Form PTO 1449 U.S. Department of Commerce Rev. 7-80 Patent and Trademark Office	Atty. Docket No. Mo-7059 / LeA 33,071	Serial No. 10/089,358
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)	Applicant Horst Berneth et al	
,	Filing Date May 13, 2002	Group 1711

INITIAL	DOCUMEN	T NUMBER	DATE	NAME	CLA	\ss	SUBCLASS	FILING IF APF PRIA	DAT PRO
Evo	AA						SUBCLASS AMAR	SIV	
5 Jun 8	AB			···········		REC R 1 4 2	TO	2003	·C
	AC				MA	RT	EIVED	00	
ENT & TROP	AE		1	90	GRO	110	03	No	· ·
	AF		M	RECEIVED 1700		77	00	GA.	7,
	AG		7/1/2	19 25 2 ED				-40'	f
	АН		<u>′</u> C	7> 2003					
	Al			100			***		
	AJ						w		
	AK	FOR	EIGN PATE	NT DOCUMENTS	<u> </u>			<u> </u>	
	DOCUMENT NUM	IBER DATE	<b>E</b>	COUNTRY		CLASS	SUBCLASS	TRANS Yes	LAT
AL	**199 14 325	07/06/00	) German	ny					-
AM·	**00/54112	09/14/00	World						
AN	887574	12/07/81	Soviet	Union (Abstract Only A	ttached)				-
	276297	07/09/14	4 Germai	ny					+
AO								i	ــــــــــــــــــــــــــــــــــــــ
		DIOD ADT (In	cluding Aut	hor Title Date Po	ertinent F	Pages Fi	ic.)		
AO	OTHER Appl. Phys. topographic	Lett. 70 (12), 2 gratings in a si	4 March 19 ide-chain liq	hor, Title, Date, Pe 97, pgs. 1518-152 juid crystalline azd	3, "An ar benzene	nalysis of polyeste	the anisotro er" by N. C. I	R. Holm	e e
AO AP	OTHER Appl. Phys. topographic Makromol.	Lett. 70 (12), 2 gratings in a si Chem. 185, pgs	4 March 199 ide-chain liques 1327-1334 alline copoly	97, pgs. 1518-152 juid crystalline azo 4, (month unavaila mers" by H. Rings	3, "An ar benzene ble) 198 dorf and	nalysis of polyeste 4, "Electr H. W. So	the anisotro er" by N. C. I o-optical effect chmidt.	R. Holm ects of a	e e
AO AP AR	OTHER Appl. Phys. topographic Makromol. dye contain Eur. Polym. Functional	Lett. 70 (12), 2 gratings in a si Chem. 185, pgs ing liquid crysta	4 March 199 de-chain liques 1327-1334 alline copoly . 559 to 561 eparation of	97, pgs. 1518-152 puid crystalline azo 4, (month unavaila mers" by H. Rings I, (month unavaila vinyl ethers and the	3, "An ar benzene ble) 198- dorf and ble) 1982 nioethers	nalysis of polyeste 4, "Electr H. W. So 2, "Prepa	the anisotro er" by N. C. I o-optical eff- chmidt. ration and A	R. Holm ects of a	e e

- \* Neither English Language Equivalent nor an English Language Translation is available.
- \*\* Copies of documents previously submitted by WIPO.

EXAMINER INTELLIST OF F (Use  EXAMINER AA  AB  AC  AD  AE  AF  AG	U.S. Department of Comr Patent and Trademark Offi PRIOR ART CITED BY APP Several Sheets If Necessa	ice PLICANT ary)	Atty. Docket No. Mo-7059 / LeA 33,071 Applicant Horst Berneth et al		Serial No. 10/089,358			
EXAMINER ENTERNAL AA AB AC AD AE AF	Patent and Trademark Offi PRIOR ART CITED BY APP	ice PLICANT ary)	Applicant Horst Berneth et al		10/089,358			
EXAMINER LINES AA AB AC AD AE AF	Several Sheets If Necessa	ary)	Horst Berneth et al					
EXAMINER  INTERIOR  AA  AB  AC  AD  AE  AF	Several Silvers II Necessi						}	
AA AB AC AD AE AF			Filing Date Group					
AA AB AC AD AE AF			May 13, 2002		1711			
AA AB AC AD AE AF		U.S. PATE	NT DOCUMENTS		<del></del>	T = 11 11 10 =		
AA AB AC AD AE AF	DOCUMENT NUMBER	R DATE	NAME	CLASS	SUBCLASS	FILING D JE APPI PRIAT	RO-	
AD AE AF					M	19 3 P	VE	
AD AE AF					Pr.		VEZ Nos	
AE AF			TEO.	- No.	"CEIL	100		
AF	***	M	EIVE		RECEIVE UP 1 7003	<b>FO</b>		
			725 200	YRO,	1103	ļ		
AG		"(	7>003		17700			
			PECEIVED 1700		-			
АН						<del> </del>		
Al								
AJ								
AK								
		FOREIGN PA	ATENT DOCUMENTS			<u> </u>		
D	OCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL Yes	ATION No*	
						100	1.0	
AL				<u> </u>			1	
AM								
AN					<u> </u>			
AO								
AP	1				1	1		
	OTHER PRICE	NPT (Including A	Author, Title, Date, Pertir	ent Pages	Ftc.)			

transport in thin films of dye-functionalized polymers" by C. J. Barrett et al.

| DATE CONSIDERED EXAMINER EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Liquid Crystals, (month unavailable) 1987, Vol. 2, No. 2, pp. 195-200, "Thermotropic liquid-

crystalline polymers XXVI. Synthesis of come-like polymers with oxygen containing spacers and a

Journal of Chemical Physics, Volume 109, Number 4, pp. 1505-1516, "Model of laser-driven mass

Neither English Language Equivalent nor an English Language Translation is available.

gratings on nonlinear optical polymer films" by D. Y. Kim et al.

study of their phase transitions" by S. G. Kostromin et al.

Copies of documents previously submitted by WIPO.

AR

AS

AT

					Sheet	4 of <u>4</u>
Form PTC 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	е	Atty. Docket No. Mo-7059 / LeA 33,0	71	Serial No. 10/089,358	
LISTO	F PRIOR ART CITED BY APPLIC Ise Several Sheets If Necessary)		Applicant Horst Berneth et al			
,	•		Filing Date May 13, 2002		Group 1711	
		U.S. PATE	NT DOCUMENTS	_		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE

,			0.0. I /\ EI\			Υ	
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS A	FILING DATE IF APPRO- PRIATE
18 2m	AA					MZ	4 SIVE
112 7 8	АВ		A.		-	70	2003
	'AC			$C_{\mathcal{E}_{I}}$		RECEIN	200
ENT & TRANS	AD		MAR.	VED	MA	K 1 4 2000	ED U
	AE		70	3 2003	GRO	- 7003	
	AF		17	00		OP 1700	
	AG						
	AH						
	Al						
	AJ						
	AK		DEIGN DATE	NT DOCUMENTS			

FOREIGN PATENT DOCUMENTS

	<del></del>			····			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION
						Yes	No*
AL							
AM							
AN							
AO							
AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	J. Appl. Phys. Vol. 36, December 1997, pp. 7233-7238, Part 1, No. 12A, "Thermal Decomposition
AR	and Deformation of Dye and Polycarbonate in Compact Disc-Recordables" by Y. J. Huh et al.
AS	
AT	
FXAMINER	DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

- Neither English Language Equivalent nor an English Language Translation is available.
- \*\* Copies of documents previously submitted by WIPO.